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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
Sheet	1	of	6	Application Number	
				Filing Date	
				First Named Inventor	ANDREACO, et al.
				Group Art Unit	2873
				Examiner Name	
				Attorney Docket Number	24017.03

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
OG	AA	2,910,592		Armistead	10-27-1959	
OG	AB	3,432,660		Anger	03-11-1969	
OG	AC	3,851,177		Van Dijk, et al.	11-26-1974	
OG	AD	3,899,675		Floyd	08-12-1975	
OG	AE	3,919,556		Berninger	11-11-1975	
OG	AF	3,955,088		Muehlelehner, et al.	05-04-1976	
OG	AG	4,037,105		Laurer	07-19-1977	
OG	AH	4,075,483		Tancrell, et al.	02-21-1978	
OG	AI	4,095,107		Genna, et al.	06-13-1978	
OG	AJ	4,124,804		Mirell	11-07-1978	
OG	AK	4,323,778		Wykes, et al.	04-06-1982	
OG	AL	4,398,092		Carlson	08-09-1983	
OG	AM	4,531,058		Burnham, et al.	07-23-1985	
OG	AN	4,667,299		Dunn	05-19-1987	
OG	AO	4,675,526		Rogers, et al.	06-23-1987	
OG	AP	4,677,299		Wong	06-30-1987	
OG	AQ	4,687,683		Ishii, et al.	08-18-1987	
OG	AR	4,733,083		Wong	03-22-1988	
OG	AS	4,743,764		Casey, et al.	05-10-1988	
OG	AT	4,749,863		Casey, et al.	06-07-1988	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.†	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office‡	Number *	Kind Code‡ (if known)				

Examiner Signature <i>Ohit Gabe</i>	Date Considered 06/16/04
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Sheet	2	of	6		

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ¹ (if known)			
OG	AU	4,750,972		Casey, et al.	06-14-1988	
OG	AV	4,837,439		Genna, et al.	06-06-1989	
OG	AW	4,843,245		Lecomte	06-27-1989	
OG	AX	4,891,520		Ishibashi, et al.	01-02-1990	
OG	AY	5,107,121		Lim, et al.	04-21-1992	
OG	AZ	5,122,667		Thompson	06-10-1992	
OG	BA	5,144,141		Rougeot, et al.	09-01-1992	
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OG	BD	5,264,154		Akiyama, et al.	11-23-1993	
OG	BE	5,319,204		Wong	06-07-1994	
OG	BF	5,332,906		Lauf, et al.	07-26-1994	
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OG	BK	5,453,623		Wong, et al.	09-26-1995	
OG	BL	5,471,061		Moyers, et al.	11-28-1995	
OG	BM	5,479,021		Morgan, et al.	12-26-1995	
OG	BN	5,521,378		Roscoe, et al.	05-28-1996	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
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Sheet	3	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code² (if known)			
OG	BO	5,608,221		Bertelsen, et al.	03-04-1997	
OG	BP	5,650,625		Stoub	07-22-1997	
OG	BQ	5,750,991		Moyers, et al.	05-12-1998	
OG	BR	5,753,917		Engdahl	05-19-1998	
OG	BS	5,841,140		McCroskey, et al.	11-24-1998	
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OG	BU	6,087,663		Moisan, et al.	07-11-2000	

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Examiner Initials*	Cite No. ²	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(use as many sheets as necessary)</p>		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;"></td> </tr> <tr> <td>Filing Date</td> <td></td> </tr> <tr> <td>First Named Inventor</td> <td>ANDREACO, et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2878</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>24017.03</td> </tr> </table>		Application Number		Filing Date		First Named Inventor	ANDREACO, et al.	Group Art Unit	2878	Examiner Name		Attorney Docket Number	24017.03
Application Number															
Filing Date															
First Named Inventor	ANDREACO, et al.														
Group Art Unit	2878														
Examiner Name															
Attorney Docket Number	24017.03														
Sheet	4	of	6												

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
OG	BV	M.E. Phelps, et al.: "Positron Emission Tomography and Autoradiography," 296-271, Raven Press, 1986	
OG	BW	R.D. Evans: "The Atomic Nucleus," Kreiger, 1955	
OG	BX	J.C. Moyers: "A High Performance Detector Electronics System for Positron Emission Tomography," Master Thesis, University of Tennessee, Knoxville, TN 1990	
OG	BY	R.A. DeKemp, et al.: "Attenuation Correction in PET Using Single Photon Transmission Measurement," Med. Phys., Vol. 21, 771-778, 1994	
OG	BZ	S.R. Cherry, et al.: "3D-PET Using a Conventional Multislice Tomograph Without Septa," J. C.A.T., 15(4)655-668, 1991	
OG	CA	J.S. Karp, et al.: "Singles Transmission in Volume-Imaging PET With a 137 Cs Source," Phys. Med. Biol. Vol. 40, 929-944, 1995	
OG	CB	S.K. Yu, et al.: "Single-Photon Transmission Measurements in Positron Tomography Using 137 Cs," Phys. Med. Biol. Vol. 40, 1255-1266, 1995	
OG	CC	G.F. Knoll: "Radiation Detection and Measurement," John Wiley & Sons, Inc.	
OG	CD	S.R. Cherry, et al.: "Optical Fiber Readout of Scintillator Arrays Using a Multi-Channel PMT: A High Resolution PET Detector for Animal Imaging," IEEE Transactions on Nuclear Science, Vol. 43, No. 3, 1932-1937, 06-1996	
OG	CE	J.A. McIntyre, et al.: "Construction of a Positron Emission Tomograph with 2.4 mm Detectors", IEEE Transactions on Nuclear Science, Vol. 33, No. 1, 425-427, February 1986	
OG	CF	M. Dahlborn, et al.: "Performance of a YSO/LSO Phoswich Detector for use in a PET/SPECT System", IEEE Transactions on Nuclear Science, Vol. 44, No. 3, 1114-1119, June 1997	

Examiner Signature D. L. Baker	Date Considered 06/16/04
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number 	
		Filing Date 	
		First Named Inventor	ANDREACO, et al.
		Group Art Unit	2848
		Examiner Name	
Sheet	5	of	6
		Attorney Docket Number	24017.03

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
OG	CG	G.B. Loutts, et al.: "Czochralski growth and characterization of (Lu 1-x Gd x)2 SiO 5 single crystals for scintillators", Journal of Crystal Growth 174 (1997), 331-336	
OG	CH	M. Schmand, et al.: "Performance results of a new DOI detector block for a High Resolution PET - LSO Research Tomograph HRRT", Source unknown	
OG	CI	A.C. Kak and M. Slaney: "Principles of Computerized Tomographic Imaging", IEEE Press, 1987	
OG	CJ	J.A. Sorenson and M.E. Phelps: "Physics in Nuclear Medicine" W.B. Saunders Company, 1987	
OG	CK	P. Tan, et al.: "A Scanning Line Source for Simultaneous Emission and Transmission Measurements in SPECT", The Journal of Nuclear Medicine, Vol. 34, No. 10, October 1993	
OG	CL	D.L. Bailey, et al.: "Improved SPECT Using Simultaneous Emission and Transmission Tomography", The Journal of Nuclear Medicine, Vol. 28, No. 5, May 1987	
OG	CM	H.M. Hudson and R.S. Larkin: "Accelerated Image Reconstruction Using Ordered Subsets of Projection Data", IEEE Transactions on Medical Imaging, Vol. 13, No. 4, December 1994	
OG	CN	L.T. Chang: "A Method for Attenuation Correction in Radionuclide Computed Tomography", IEEE Transactions on Nuclear Science, Vol. NS-25, No. 1, February 1978	
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OG	CP	K. Lange, et al.: "A Theoretical Study of Some Maximum Likelihood Algorithms for Emission and Transmission Tomography", IEEE Transactions on Medical Imaging, Vol. MI-6, No. 2, June 1987	
OG	CQ	G.T. Gullberg, et al.: "An Attenuation Projector-Backprojector for Interactive SPECT Reconstruction", Phys. Med. Biol., 1985, Vol. 30, No. 3, 799-816	

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Substitute for form 14498/PTO		Completeness if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number			
		Filing Date			
		First Named Inventor	ANDREACO, et al.		
		Group Art Unit	2228		
		Examiner Name			
Sheet	6	of	6	Attorney Docket Number	24017.03

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T†
OG	CR	K. Lange and R. Carson, "EM Reconstruction Algorithms for Emission and Transmission Tomography", Journal of Computer Assisted Tomography 8(2): 306-313, April 1984	
OG	CS	C.A. Burnham, et al.: "MGH Cylindrical PET Detector Characteristics", 1644-1647	

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